

DIABETES

LITERATURE INDEX

NATIONAL INSTITUTE OF ARTHRITIS, METABOLISM, AND DIGESTIVE DISEASES

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DIABETES LITERATURE INDEX

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PREFACE

Diabetes Literature Index is a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases which has been prepared from MEDLARS (Medical Literature Analysis and Retrieval System) tapes furnished by the National Library of Medicine. This specialized information medium is being published to fill an existing great need in the field of diabetes and to assist the Institute in meeting its obligations to foster and support laboratory and clinical research into the nature, causes, and therapy for diabetes. Publication of *Diabetes Literature Index* makes available an index of all current scientific papers relevant to this field from the world literature.

It is hoped that the issuing of *Diabetes Literature Index* under the auspices of the National Institute of Arthritis, Metabolism, and Digestive Diseases will provide a much needed current awareness tool to scientists and will facilitate greater integration of research and clinical efforts in this field. *Diabetes Literature Index* has been published monthly since January 1966 and is cumulated at the end of each calendar year.

This publication is available free to National Institutes of Health grantees and contractors working in the field of diabetes, and libraries of medical schools. Requests from these *qualified* individuals to receive free copies of this publication must include their grant or contract number and the title of their project. These requests as well as address changes and other communications from these qualified recipients of free copies should be addressed to:

Scientific Communications Office
Diabetes Literature Index
National Institute of Arthritis,
Metabolism, and Digestive Diseases
Building 31, Room 9A-03
Bethesda, Maryland 20014

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The Secretary of the Department of Health, Education, and Welfare has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through April 30, 1978

EDITORIAL NOTE

Diabetes Literature Index, a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases (NIAMDD), was brought about through the cooperative efforts of two divisions of the National Institutes of Health (NIAMDD and the National Library of Medicine), a professional society (American Diabetes Association), three Universities (University of Minnesota, University of Rochester, and Case Western Reserve University) as well as a number of individual scientists. In this rather unique cooperative project, initiated in 1958, duplication of effort has been reduced to a minimum. The digital information generated from the original input of bibliographic citations to the National Library of Medicine's MEDLARS system is processed by computer in several different ways and ultimately used to compose the final printed pages of this *Diabetes Literature Index*.

Each month the MEDLARS magnetic tape furnished by the National Library of Medicine (NLM) is used for identification of the diabetes related literature. All bibliographic citations classified under subject headings which we have designated as Priority I, represent articles that are 100% diabetes-related; they are automatically copied onto a new magnetic tape and constitute over seventy percent of the citations appearing in this index. The citations appearing under Priority II and III are subject headings which include both diabetes-related and unrelated articles; these are printed on cards by the computer. The diabetes related citations are identified manually and the corresponding digital information is added to the next month's Priority I magnetic tape.

In the selection of this bibliography, diabetes-related literature has been defined in a rather arbitrary but broad, comprehensive manner with a view toward providing the widest possible coverage of related areas. To this end the following subjects have been included: the Islets of Langerhans in the pancreas, including their structure and pathologic alterations; insulin, its properties, assay, synthesis, release or degradation; the direct and indirect effects of insulin on target organs; blood glucose level, hyper- and hypo-glycemia; insulin antibodies and insulin resistance; insulin allergy; recent developments in intermediary metabolism; experimental and clinical aspects of diabetes, signs, symptoms, diagnosis, treatment, complications, and associated condi-

tions. Also included are other hormones and agents whose effects are similar, opposite, synergistic or antagonistic to insulin, either in their primary or secondary effects on target organs. It should be noted that there are undoubtedly some omissions due to the empirical definition of the diabetes-related literature which was adopted and also to the difficulties attendant in preparing such a large-scale bibliography by machine.

The *Diabetes Literature Index* is published in three formats: a hierarchical subject index, a key word in title index, and an author index. The magnetic tape version of these indexes, prepared at the University of Minnesota, is used to generate the copy for offset printing by the Government Printing Office on their Linotron.

Hierarchical Subject Index: This index differs from *Index Medicus* in that related terms are grouped together in a hierarchical relationship. Thus, all citations which are indexed under blood sugar, glucose tolerance, hyperglycemia, hypoglycemia, and glycosuria are grouped under the general heading "blood sugar, urine sugar and related topics." In both the Diabetes Key Word Index and in *Index Medicus* these terms are arranged alphabetically, and the corresponding citations are distributed at many different page locations. In some instances where only a few citations appear under several similar subject headings, these are grouped together under a more generic term; at times, a new non-MEDLARS index term is created to cover these groupings of subject headings. In some instances where many citations appear under a single subject heading, these are subdivided by using subheadings.

Although the hierarchical subject index is, in a sense, a miniaturized version of *Index Medicus* (dealing with the core diabetes literature) it provides a much greater depth of indexing. Many relevant citations included in the *Diabetes Literature Index* do not appear under the corresponding subject headings in *Index Medicus*; because of space limitations, only two or three of the ten or more index terms included on the MEDLARS magnetic tape are used in the printed version of *Index Medicus*. At times the reason why a given citation appears under a specific subject heading may not be apparent from the article title. However, examination of the list of index terms for this citation (included in the Author Index under

the principal author) will give the basis for this inclusion.

Beginning with the January 1971 issue, two sections are included in the Hierarchical Subject Index. In *Section 1*, "Diabetes Mellitus and Related Topics," the major subdivisions include the MEDLARS terms: Islets of Langerhans, Pancreas, Insulin, Glucagon, Blood and Urine Sugar; the subsection on "Diabetes," (Section 1.F) is extensively subdivided and many subheadings are used. In *Section 2*, "Endocrinology" is divided into subsections dealing with the individual endocrine glands. Hierarchical subject indexes related to Biochemistry and the organ systems (included in the experimental issues, published in February and March, 1969) are not included at this time; terms related to these subjects are, however, included in the Keyword Index.

A list of the subject headings included in the tree structure of the hierarchy (with their corresponding index numbers) and an alphabetic cross index of these subject headings is printed immediately preceding the Hierarchical Subject Index.

Key Word Index: For all of the diabetes-related literature chosen, key words in the title are identified by the computer and an expanded magnetic tape is prepared, listing the complete bibliographic citation under each key word. Most editorial decisions are made by the computer-disk-look-up-program using a master list of terms. Trivial words are deleted and specific word combinations are also selected. Abbreviations and word variant forms are replaced by the more commonly used key word. Inconsistencies between the British and American spellings are eliminated. In no case, however, is a change made within the title itself. Words which have not ap-

peared previously in the system are identified by the computer program and flagged for human decision.

With the publication of the hierarchical subject index, the key word index has been shortened. Diabetes is not included as a term in the key word index as it is covered in great detail in the hierarchical subject index. Although users may find the hierarchical subject index more useful for coverage of their broad interests, the key word index is advantageous in locating citations dealing with very specific terms—for example those relating to biochemistry or the organ systems. The key word index is of special value in locating citations dealing with the frontiers of diabetes research, for new terms appearing in the title are immediately included in the key word index.

Author Index: Because of space limitations, the printed version of *Index Medicus* excludes all but the first three authors in multiple author publications. However since the last author is often the best known, this name may be the most useful for reference or retrieval; therefore, all authors are included in the Diabetes Literature Author Index. These are automatically identified by the computer program and an alphabetized magnetic tape is prepared in which the complete bibliographic citation is included under each author. In addition, all of the index terms used by the NLM for each citation are listed under the principal author, thus providing an overview of the subject content of the article.

Users planning to systematically cover all articles appearing in a given month may do so by scanning the author index, limiting their perusal to the principal author, i.e., those citations which contain the MEDLARS index terms.

Arrangement of the Hierarchical Index

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1.C.1.6	INSULIN, BLOOD	1.E.6.8	HYPOGLYCEMIA, PHYSIOPATHOLOGY
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 ACIDOSIS, DIABETIC
 ACROMEGALY
 ADDISONS DISEASE
 ADRENAL CORTEX HORMONES
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 ADRENAL GLAND HYPOFUNCTION
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 ADRENOGENITAL SYNDROME

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 BLOOD
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 ENZYMOLGY
 METABOLISM
 PATHOLOGY
 PHYSIOPATHOLOGY

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 ANDROGENS
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 CALCITONIN
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 CHOLPROPAMIDE
 CHOLECYSTOKININ
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 CHROMAFFIN SYSTEM
 CONTRACEPTIVES, ORAL
 CORONARY DISEASE
 CORPUS LUTEUM
 CORPUS LUTEUM HORMONES
 CORTICOSTERONE
 CORTICOTROPIN
 CORTICOTROPIN RELEASING HORMONE
 CORTISONE
 CRETINISM
 CUSHING'S SYNDROME
 CYCLAMATES
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 CYTOCHALASINS
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 DESOXYCORTICOSTERONE
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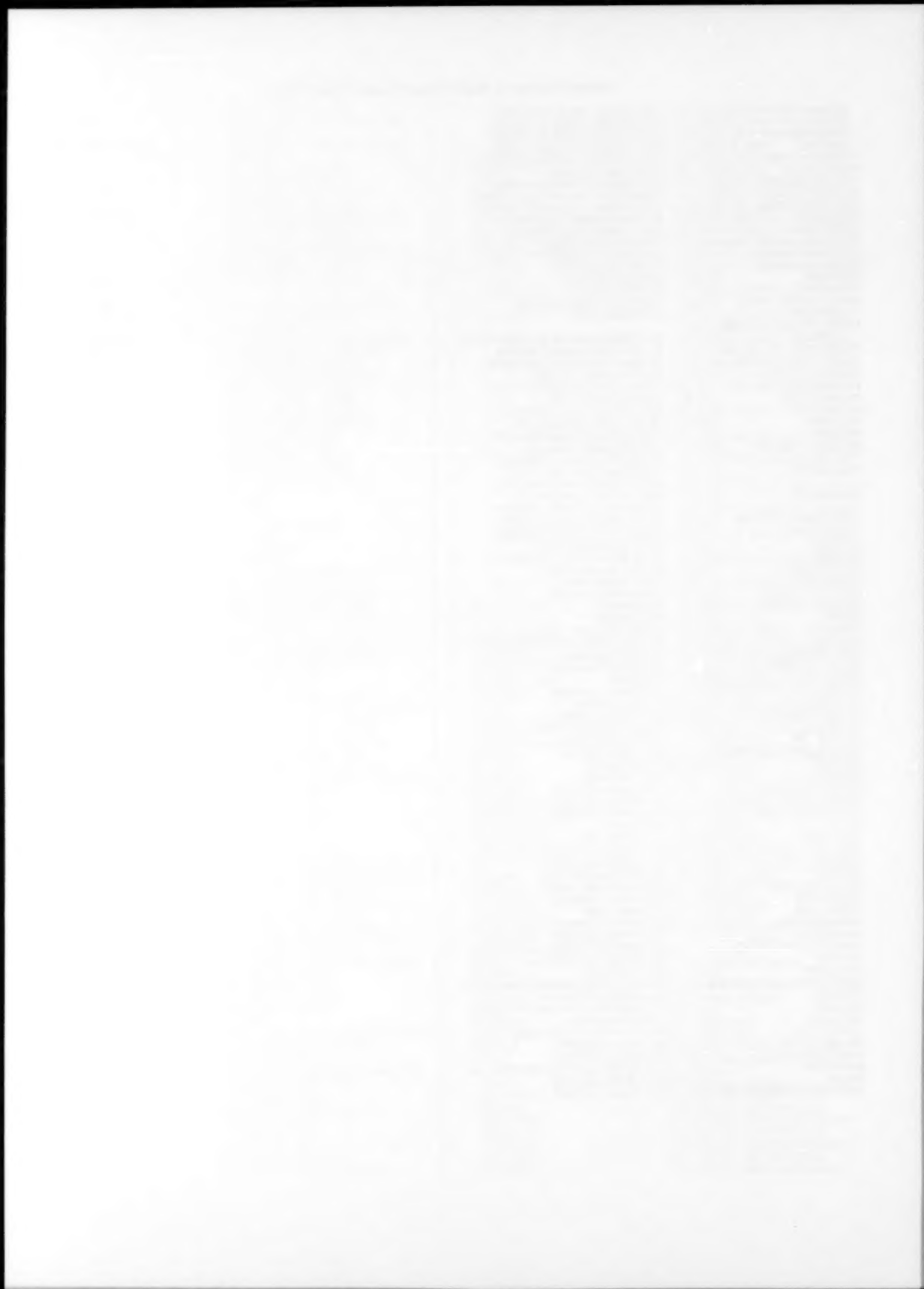
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SECTION 1. DIABETES MELLITUS AND RELATED TOPICS

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1.C.7.3 INSULIN, THERAPEUTIC USE (SEE 1.F.9.3.2)

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2.A.3 GLUCAGON (SEE SEC. 1.D)

2.B ADRENAL GLANDS

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2.B.1 ADRENAL CORTEX

2.B.2 ADRENAL CORTEX HORMONES

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[ROLE OF THE LIVER IN HORMONE METABOLISM AND IN THE REGULATION OF THEIR CONTENT IN THE BLOOD] Genes SG *Arkhy Patol* 39: 74-80, 1977 (Rus) [63 ref.] DL/78JAN629

2.B.2.1 GLUCOCORTICOIDS

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2.B.2.1.2 HYDROCORTISONE

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[EFFECT OF L-DOPA ON THE BEHAVIOR OF PLASMA CORTISOL IN TESTS WITH LYSINE-8-VASOPRESSIN AND WITH INSULIN IN NORMAL SUBJECTS] Sellini M, Giovannini C, Fierro A, Scavo D *Boll Soc Ital Biol Sper* 53: 385-91, 15 Mar 77 (Ita) DL/78JAN212

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[MINERALOCORTICOID AND GLUCOCORTICOID FUNCTIONS OF THE ADRENAL CORTEX AND SOME MECHANISMS OF THEIR REGULATION IN OBESITY] Epshtein EV *Probl Endokrinol (Mosk)* 23: 27-31, Mar-Apr 77 (Rus) DL/78JAN475

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2.A ENDOCRINE PANCREAS

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[THE STRESS ULCER IN THE NEUROSURGICAL DISEASE AND THE WARNING DATA (AUTHORS TRANSL.)] Oi S, Ohi Y, Tamaki N, Osaka K, Matsumoto S *Neurol Surg (Tokyo)* 5: 125-32, Feb 77 (Jpn) *DL/78JAN141

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[DISORDER OF THE ACTIVITY OF THE CARDIOVASCULAR SYSTEM IN OBESITY IN CHILDREN AND ADOLESCENTS] Chekunova LK *Probl Endokrinol (Mosk)* 23: 20-7, Mar-Apr 77 (Rus) DL/78JAN474

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2.B.2.2 MINERALOCORTICOIDS

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2.B.3 ADRENAL MEDULLA

2.B.3.1 EPINEPHRINE

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[AGE-SPECIFIC CHARACTERISTICS OF THE EFFECT OF VARIOUS HORMONES ON THE LIPOLYSIS IN THE ADIPOSE TISSUE OF RATS UNDER NORMAL CONDITIONS AND IN STARVATION] Gatsko GG, Chaika LD *Probl Endokrinol (Mosk)* 22: 61-5, Sep-Oct 76 (Rus) *DL/78JAN147

COMPARISON OF CYCLIC ADENOSINE 3':5'-MONOPHOSPHATE AND CYCLIC GUANOSINE 3':5'-MONOPHOSPHATE LEVELS, CYCLASES, AND PHOSPHODIESTERASES IN MORRIS HEPATOMAS AND LIVER. Hickie RA, Thompson WJ, Strada SJ, Couture-Murillo B, Morris HP, Robison GA *Cancer Res* 37: 3599-606, Oct 77 (Eng) DL/78JAN241

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2.B.4 ADRENALECTOMY

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2.B.5 ADRENAL DISORDERS

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2.C THYROID GLAND

EFFECTS OF CONCANAVALIN A AND NEURAMINIDASE ON CYCLIC AMP LEVELS AND 14C-1-GLUCOSE OXIDATION IN DOG THYROID SLICES. Yamashita K, Aiyoshi Y, Oka H, Ogata E *Endocrinol Jpn* 23: 355-8, Aug 76 (Eng) *DL/78JAN37

INHIBITION OF THYROID-STIMULATING HORMONE STIMULATION OF PROTEIN KINASE, GLUCOSE OXIDATION, AND PHOSPHOLIPID SYNTHESIS IN THYROID SLICES PREVIOUSLY EXPOSED TO THE HORMONE. Field JB, Bloom G, Chou C, Kerins ME *J Clin Invest* 59: 659-65, Apr 77 (Eng) *DL/78JAN75

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2.C.1 THYROID HORMONES

[EFFECT OF PROPRANOLOL ON CARBOHYDRATE METABOLISM OF THE HEART MUSCLE IN EXPERIMENTAL HYPERTHYROIDISM] Mach Z, Wajdowicz *Folia Med Cracov* 18: 401-6, 1976 (Pol) *DL/78JAN55

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2.D PARATHYROID GLANDS

2.C.2 THYROID ANTAGONISTS

PROTON MOVEMENTS COUPLED TO SUGAR TRANSPORT VIA THE GALACTOSE TRANSPORT SYSTEM IN SALMONELLA TYPHIMURIUM. Thienem GM, Postma PW, Dam KV *Eur J Biochem* 73: 521-7, Mar 1 77 (Eng) *DL/78JAN40

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2.F.3.3 CORPUS LUTEUM AND PROGESTATIONAL HORMONES

2.F.3.3.1 CORPUS LUTEUM HORMONES

2.F.3.3.2 PROGESTATIONAL HORMONES

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2.F.3.4 CONTRACEPTIVES, ORAL

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2.G.2.3 HORMONES, ECTOPIC

2.G.2.4 PLACENTAL HORMONES

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ADENOSINE TRIPHOSPHATE (pharmacodynamics); ANIMAL; ENERGY METABOLISM (drug effects); EXERTION; HORSES (physiology).

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BINDING, COMPETITIVE; BIOLOGICAL TRANSPORT, ACTIVE; CELL MEMBRANE

(metabolism); ESCHERICHIA COLI (metabolism); GALACTOSIDES (metabolism); GENES; GLYCOSIDES (metabolism); KINETICS; LACTOSE (metabolism); SPECIES SPECIFICITY.

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ANIMAL; BLOOD SUGAR (metabolism); DIAZOXIDE; DOGS; GLUCAGON (blood); HYPERGLYCEMIA (blood, chemically induced); INSULIN (blood); PHENTOLAMINE (pharmacodynamics); SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); U.S. GOVT SUPPORTED, N.I.H.).

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[CHARACTERISTICS OF THE FUNCTIONAL MATURITY OF THE INSULAR APPARATUS OF THE HUMAN PANCREAS DURING INTRAUTERINE DEVELOPMENT] Sapronova Ala, Pronina TS, Altukhova VI *Ontogenez* 8: 138-43, 1977 (Rus) DL/78JAN446

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ACUTE DISEASE; ADULT; AGED; CASE REPORT; ENGLISH ABSTRACT; FEMALE; GLUCAGON (blood, therapeutic use); HUMAN; MALE; MIDDLE AGE; PANCREATITIS (drug therapy).

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CELL MEMBRANE (metabolism); CELLS, CULTURED; ENDOCYTOSIS; FIBROBLASTS; HORSERADISH PEROXIDASE (metabolism); HYPERCHOLESTEREMIA; IGG (metabolism); LIPOPROTEINS, LDL (metabolism); ORGANOIDS (physiology, ultrastructure); RECEPTORS, DRUG (metabolism);

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AMYLOID (metabolism); CALCITONIN (immunology, metabolism); FLUORESCENT ANTIBODY TECHNIC; HUMAN; INSULIN (immunology, metabolism); ISLET CELL TUMOR (diagnosis, metabolism); PANCREAS (metabolism); PANCREATIC NEOPLASMS (diagnosis, metabolism); THYROID GLAND (metabolism); THYROID NEOPLASMS (diagnosis, metabolism); TISSUE PRESERVATION.

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AUSTRIA; CESAREAN SECTION; ENGLISH ABSTRACT; FEMALE; HUMAN; HYPOCALCEMIA (etiology); HYPOGLYCEMIA (etiology); INFANT MORTALITY; INFANT, NEWBORN; LABOR COMPLICATIONS (etiology, surgery); OBSTETRICS AND GYNECOLOGY DEPARTMENT, HOSPITAL; PREGNANCY IN DIABETES (classification, complications, therapy); PREGNANCY; PRENATAL CARE; PROGNOSIS.

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ADOLESCENCE; ADULT; AGED; BLOOD SUGAR (metabolism); DIABETIC COMA (blood, drug therapy); FEMALE; HUMAN; INJECTIONS, INTRAMUSCULAR; INSULIN ANTIBODIES (analysis); INSULIN (administration & dosage, blood, therapeutic use); MALE; MIDDLE AGE.

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ADOLESCENCE; ADULT; AGED; ANTIGENS, BACTERIAL (administration & dosage); COMPARATIVE STUDY; DIABETES MELLITUS (complications, immunology); DOSE-RESPONSE RELATIONSHIP, IMMUNOLOGIC; HUMAN; LYMPHOCYTE TRANSFORMATION; LYMPHOCYTES (immunology); MIDDLE AGE; STAPHYLOCOCCAL INFECTIONS (complications); STAPHYLOCOCCUS AUREUS (immunology).

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MEMBRANE PERMEABILITY; CHOLESTEROL (blood); DIFFUSION; ELECTROLYTES (blood); ERYTHROCYTE MEMBRANE (analysis, metabolism); ERYTHROCYTES (metabolism); GLYCOLATES (blood); HUMAN; LACTATES (blood); MEMBRANE LIPIDS (analysis, blood); MEMBRANE PROTEINS (analysis, blood); PHLORETIN (blood); PHOSPHOLIPIDS (blood); REVIEW; UREA (blood); WATER (metabolism).

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ADOLESCENCE; ADULT; CHILD; COMPARATIVE STUDY; DIABETES MELLITUS, JUVENILE (classification, radiography); DIABETIC RETINOPATHY (classification, radiography); FUNDUS FLUORESCENCE PHOTOGRAPHY; HUMAN; OPHTHALMOSCOPY.

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IS HYPERVISCOSITY A TREATABLE COMPONENT OF DIABETIC MICROCIRCULATORY DISEASE Barnes AJ, Locke P, Scudder PR, Dormandy JA, Slack J *Lancet* 2: 789-91, 15 Oct 77 (Eng) DL/78JAN412

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GLYCOSURIA (diagnosis); HUMAN; INFANT; INFANT, NEWBORN; LACTULOSE (metabolism, urine); MALTULOSE (metabolism, urine); METHODS; SUCROSE (metabolism, urine).

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ACIDOSIS, DIABETIC (drug therapy); BRAIN EDEMA (etiology); DRUG ADMINISTRATION

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SCHEDULE; GLUCOSE (therapeutic use); HUMAN; INFUSIONS, PARENTERAL; INSULIN (administration & dosage, therapeutic use); KETOSIS, DIABETIC (drug therapy); OSMOLAR CONCENTRATION; PHOSPHATES (therapeutic use); POTASSIUM (therapeutic use).

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[EFFECT OF DIABETES ON VIRAL HEPATITIS] Chiznski Z, Drobnik S, Dworniak D, Zielonka Z *Wiad Lek* 30: 1177-82, 1 Aug 77 (Pol) DL/78JAN558

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FEMALE; HUMAN; HYPOGLYCEMIA (chemically induced); INFANT, NEWBORN; INSULIN (adverse effects, therapeutic use); PREGNANCY IN DIABETES (drug therapy); PREGNANCY; RISK.

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ADULT; AGED; CAPILLARY PERMEABILITY; DIABETES MELLITUS (physiopathology); ENGLISH ABSTRACT; FEMALE; FOREARM (blood supply); HUMAN; MALE; MIDDLE AGE; PLETHYSMOGRAPHY.

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ALCOHOL OXIDOREDUCTASES (metabolism); ANIMAL; CHOLESTEROL (biosynthesis); GERM-FREE LIFE; HYDROXYMETHYLGLUTARYL COA REDUCTASES (metabolism); MALE; MICROSOMES, LIVER (enzymology); RATS.

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ADULT; AGED; DIABETES MELLITUS; FEMALE; HUMAN; MALE; MIDDLE AGE; SEX BEHAVIOR; SEX FACTORS; SEX.

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EVIDENCE FOR SEPARATE PEPTIDE SEQUENCES RELATED TO THE LIPOLYTIC AND MAGNESIUM-ACCUMULATING ACTIVITIES OF ACTH. ANALOGY WITH ADRENERGIC RECEPTORS. Elliott DA, Draper MW, Rizack MA *J Med Chem* 20: 584-6, Apr 77 (Eng) *DL/78JAN109

ADIPOSE TISSUE (drug effects, metabolism); AMINO ACID SEQUENCE; ANIMAL; CORTICOTROPIN (analogs & derivatives, pharmacodynamics); DRUG INTERACTIONS; IN VITRO; ISOPROTERENOL (pharmacodynamics); LIPIDS (metabolism); MAGNESIUM (metabolism); METHOXAMINE (pharmacodynamics); NOREPINEPHRINE (pharmacodynamics); PEPTIDES (pharmacodynamics); PHENTOLAMINE (pharmacodynamics); PROPRANOLOL

(pharmacodynamics); RATS; RECEPTORS, ADRENERGIC (physiology); STRUCTURE-ACTIVITY RELATIONSHIP; TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

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THE MECHANISM OF CATABOLITE INHIBITION OF INVERTASE BY GLUCOSE IN SACCHAROMYCES CEREVISIAE. Elorza MV, Villanueva JR, Sentandreu R *Biochim Biophys Acta* 475: 103-12, 2 Mar 77 (Eng) *DL/78JAN12

CYCLOHEXIMIDE (pharmacodynamics); GLUCOSE (metabolism, pharmacodynamics); KINETICS; MALTOSE (metabolism); POLYRIBOSOMES (metabolism); SACCHAROMYCES CEREVISIAE (drug effects, enzymology, metabolism); SUCRASE (metabolism); SUCROSE (metabolism); TRANSCRIPTION, GENETIC (drug effects).

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ANIMAL; FATTY ACIDS, NONESTERIFIED (blood, metabolism); FEMALE; FETAL BLOOD (analysis); MATERNAL-FETAL EXCHANGE; PLACENTA (metabolism); PREGNANCY; UMBILICAL ARTERIES; UMBILICAL VEINS.

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ADENOCARCINOMA (etiology, occurrence); ADULT; AGE FACTORS; AGED; DIABETES MELLITUS (complications); EPIDEMIOLOGIC METHODS; FEMALE; HUMAN; HYPERTENSION (complications); MARRIAGE; MASSACHUSETTS; MATERNAL AGE; MENOPAUSE; MIDDLE AGE; PARITY; REVIEW; SOCIOECONOMIC FACTORS; U.S. GOVT SUPPORTED, N.I.H.); UTERINE NEOPLASMS (etiology, occurrence).

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ADOLESCENCE; ADRENAL CORTEX (physiopathology); ADULT; ALDOSTERONE

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Erbel R

(blood); COMPARATIVE STUDY; CORTICOTROPIN (blood); ENGLISH ABSTRACT; FEMALE; GLUCOCORTICIDS (blood); HUMAN; HYDROCORTISONE (blood); HYPOTHALAMUS (physiopathology); INSULIN (diagnostic use); MALE; MIDDLE AGE; MINERALOCORTICIDS (blood); OBESITY (physiopathology); PITUITARY-ADRENAL FUNCTION TESTS; RENIN (blood); 17-HYDROXYCORTICOSTEROIDS (urine).

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ADOLESCENCE; ASTHMA (classification); CHILD BEHAVIOR DISORDERS (classification); CHILD; CHILD, PRESCHOOL; CYSTIC FIBROSIS (classification); DEAFNESS (classification); DIABETES MELLITUS, JUVENILE (classification); DISABILITY EVALUATION; DOWNS SYNDROME (classification); EPILEPSY (classification); GERMANY, WEST; HANDICAPPED; HEART DEFECTS, CONGENITAL (classification); HEMOPHILIA (classification); HUMAN; INFANT; KIDNEY DISEASES (classification); LEGISLATION; LEUKEMIA (classification); MENTAL RETARDATION (classification); PHENYLKETONURIA (classification).

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ADMINISTRATION, ORAL; HUMAN; HYPOGLYCEMIC AGENTS (administration & dosage, metabolism, therapeutic use).

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ALLOXAN; ANIMAL; CELL FRACTIONATION (methods); CENTRIFUGATION, DENSITY GRADIENT; COMPARATIVE STUDY; DIABETES MELLITUS, EXPERIMENTAL (enzymology); MALE; MUSCLES (enzymology, ultrastructure); OSMOLAR CONCENTRATION; POLYRIBOSOMES (enzymology, ultrastructure); RATS; RIBONUCLEASE (metabolism); STREPTOZOTOCIN.

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CARBOHYDRATES (metabolism); CELL LINE; HEXOSES (metabolism); METHYLNITRONITROSOGUANIDINE (pharmacodynamics); MUTATION.

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BOMBESIN (administration & dosage, pharmacodynamics); GLUCAGON (secretion); HUMAN; INFUSIONS, PARENTERAL; PEPTIDES (pharmacodynamics); STIMULATION, CHEMICAL.

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ADULT; BLOOD PRESSURE; BODY WEIGHT; CHOLESTEROL (blood); CORONARY DISEASE (blood, familial & genetic, occurrence); DISEASES IN TWINS; EPIDEMIOLOGIC METHODS; GLUCOSE TOLERANCE TEST; HUMAN; MALE; MIDDLE AGE; RISK; TRIGLYCERIDES (blood); TWINS; DIZYGOTIC; TWINS, MONOZYGOTIC; UNITED STATES NATIONAL INSTITUTES OF HEALTH; UNITED STATES; URIC ACID (blood); VARIATION (GENETICS)).

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Harbell JW

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ADULT; BLOOD SUGAR (metabolism); COMPARATIVE STUDY; FEMALE; GLUCAGON (administration & dosage, diagnostic use); GLUCOSE TOLERANCE TEST; HUMAN; INFUSIONS, PARENTERAL; INSULIN (blood); MIDDLE AGE; PORTAL VEIN.

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ANIMAL; BLOOD SUGAR (metabolism); BLOOD-BRAIN BARRIER; BRAIN (metabolism); COMPARATIVE STUDY; DEOXY SUGARS (pharmacodynamics); DEOXYGLUCOSE (blood, pharmacodynamics); DOGS (blood); DOSE-RESPONSE RELATIONSHIP, DRUG ; GOATS (blood); HYPERGLYCEMIA (chemically induced); SPECIES SPECIFICITY.

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ANIMAL; CALCIUM (pharmacodynamics); GLUCAGON (pharmacodynamics); GLYCERIN (metabolism); GLYCOGEN (metabolism); IN VITRO; ISOPROTERENOL (pharmacodynamics); LIPID MOBILIZATION (drug effects); MALE; MYOCARDIUM (enzymology, metabolism); PROTEIN KINASE (metabolism); RATS; TIME FACTORS; TRIGLYCERIDES (metabolism); U.S. GOVT SUPPORTED, N.I.H.).

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ANIMAL; BLOOD SUGAR; DOSE-RESPONSE RELATIONSHIP, DRUG; GASTRIC EMPTYING (drug effects, radiation effects); GLUCAGON (pharmacodynamics); INSULIN (therapeutic use); MALE; NAUSEA (drug therapy); RADIOTHERAPY (adverse effects); RATS; VOMITING (drug therapy).

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ANIMAL; BODY WEIGHT; DIETARY FATS; ERUCIC ACIDS (pharmacodynamics); FATTY ACIDS (metabolism); FATTY ACIDS, UNSATURATED (pharmacodynamics); HEART (drug effects); LIPIDS (metabolism); MALE; MYOCARDIUM (metabolism, pathology); NECROSIS; OILS (metabolism); RATS; TIME FACTORS; TRIGLYCERIDES (metabolism).

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ACIDOSIS (chemically induced); COMPARATIVE STUDY; HUMAN; METFORMIN (adverse effects, therapeutic use); PHENFORMIN (adverse effects, therapeutic use); RISK.

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[ULTRASTRUCTURAL ANALYSIS OF THE EFFECT OF ALLOXAN ON THE CELLULAR ELEMENTS OF THE PANCREAS IN REPTILES] Iaglov VV *Biull Eksp Biol Med* 84: 245-7, Aug 77 (Rus) DL/78JAN221
ALLOXAN (pharmacodynamics); ANIMAL; CYTOPLASM (ultrastructure); ENGLISH ABSTRACT; ISLANDS OF LANGERHANS (drug

effects, ultrastructure); MITOCHONDRIA (ultrastructure); PANCREAS (drug effects, ultrastructure); TIME FACTORS; TURTLES (anatomy & histology).

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ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL; CORONARY DISEASE (metabolism); CORONARY VESSELS; DOGS; ENDOCARDIUM (metabolism); FEMALE; GLUCOSEPHOSPHATES (metabolism); GLYCOGEN PHOSPHORYLASE (metabolism); GLYCOGEN (metabolism); LACTATES (metabolism); LIGATION; MALE; MYOCARDIUM (metabolism); PERICARDIUM (metabolism); PHOSPHOCREATINE (metabolism); PROPRANOLOL (pharmacodynamics).

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ANIMAL; BLOOD SUGAR; COMPARATIVE STUDY; DENERVATION; DIETARY FATS; FEMALE; GLUCAGON (blood); HYPOTHALAMUS (physiology); INSULIN (blood); ISLANDS OF LANGERHANS (metabolism); MATHEMATICS; MODELS, BIOLOGICAL; OBESITY (etiopathology, metabolism); RATS; U.S. GOVT SUPPORTED, N.I.H.).

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ELECTRICAL PROPERTIES AND ACTIVE SOLUTE TRANSPORT IN RAT SMALL INTESTINE. 1. POTENTIAL PROFILE

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[SUPPRESSIVE EFFECT OF SOMATOSTATIN ON SECRETIN-CKK-PZ-STIMULATED ENDOCRINE AND EXOCRINE PANCREATIC FUNCTION IN MAN (AUTHORS TRANSL)] Regal H, Fink M, Luger T, Ogris E, Fischer M, Irsigler K *Wien Klin Wochenschr* 89: 580-6, 16 Sep 77 (Ger) DL/78JAN562

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ADOLESCENCE; ADULT; AGE FACTORS; AGED; DIABETIC NEUROPATHIES (occurrence, therapy); ENGLISH ABSTRACT; FEMALE; HUMAN; HYPESTHESIA (occurrence); MALE; MIDDLE AGE; MOVEMENT DISORDERS (occurrence); PAIN; PERIPHERAL NERVE DISEASES (occurrence); SEX FACTORS; TIME FACTORS.

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[ANALYSIS OF 24-HOUR BLOOD GLUCOSE PROFILES IN DIABETIC CHILDREN CARRIED OUT UNDER VARIOUS LIFE CONDITIONS] Iwanicka Z, Wasikowa R, Noczynska A, Boznanski A *Pediatr Pol* 52: 875-8, Aug 77 (Pol) DL/78JAN457

ADOLESCENCE; BLOOD SUGAR (analysis); CAMPING; CHILD; DIABETES MELLITUS, JUVENILE (blood); ENGLISH ABSTRACT; FEMALE; HEALTH RESORTS; HOSPITALS, TEACHING; HUMAN; MALE.

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[RELATIONSHIPS OF SERUM AND URINE ACID MUCOPOLYSACCHARIDE TO AGING, GLUCOSE TOLERANCE AND AORTIC ARCH CALCIFICATION—STUDIES ON THE METABOLISM, SECRETION AND EXCRETION OF GLYCOPROTEIN IN ARTERIOSCLEROSIS (AUTHORS TRANSL)] Izawa M *Nippon Ronen Igakkai Zasshi* 14: 268-78, Jul 77 (Jpn) DL/78JAN390

ADULT; AGED; AGING; AORTA, THORACIC (pathology); ARTERIOSCLEROSIS (metabolism, pathology); CALCINOSIS (pathology); ENGLISH ABSTRACT; GLUCOSE TOLERANCE TEST; GLYCOPROTEINS (metabolism); HUMAN; MIDDLE AGE; MUCOPOLYSACCHARIDES (metabolism).

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ANIMAL; AORTA, ABDOMINAL (pathology); AORTA, THORACIC (pathology); CHOLESTEROL ESTERS (blood); CHOLESTEROL (blood); DIETARY FATS; ELECTRON SPIN RESONANCE; FATTY ACIDS (pharmacodynamics); LIPOPROTEINS (blood); LIPOPROTEINS, HDL (blood); LIPOPROTEINS, LDL (blood); LIPOPROTEINS, VLDL (blood); PROTEIN CONFORMATION; SWINE; THERMODYNAMICS; TRIGLYCERIDES (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Jaillard J

CHANGES IN RAT HEART PHOSPHOLIPID COMPOSITION AFTER RAPESEED OIL FEEDING. Dewailly P, Sezille G, Nouvelot A, Fruchart JC, Jaillard J *Lipids* 12: 301-6, Mar 77 (Eng) *DL/78JAN133

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GENETIC COMPONENT OF OBESITY [LETTER]. James WP, Trayhurn P *Lancet* 1: 653-4, 19 Mar 77 (Eng) *DL/78JAN126

ENERGY METABOLISM; HUMAN; NUTRITIONAL REQUIREMENTS; OBESITY (etiology, familial & genetic, metabolism).

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ANIMAL; BLOOD SUGAR (metabolism); CYCLIC P-OXIDES (pharmacodynamics); DIABETES MELLITUS, EXPERIMENTAL (immunology, microbiology); ENCEPHALOMYOCARDITIS VIRUSES

(immunology, pathogenicity); IMMUNOSUPPRESSION; MALE; MICE; OXAZINES (pharmacodynamics); RADIATION EFFECTS; X-RAYS.

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ADULT; ARGININE (diagnostic use); C-PEPTIDE (blood); COMPARATIVE STUDY; FEMALE; GLUCOSE (diagnostic use); HUMAN; INSULIN (blood); KIDNEY FAILURE, CHRONIC (blood); MALE; MIDDLE AGE; PEPTIDES (blood); PROINSULIN (blood); STARVATION; U.S. GOVT SUPPORTED, N.I.H.).

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ADULT; AGED; CELLULOSE (therapeutic use); DIABETES MELLITUS (diet therapy, urine); DIETARY CARBOHYDRATES (administration & dosage, therapeutic use); DIETARY FIBER (administration & dosage, therapeutic use); DIURNAL RHYTHM; FEMALE; FOLLOW-UP STUDIES; GLYCOSURIA (diet therapy); HUMAN; MALE; MANNANS (therapeutic use); MIDDLE AGE; POLYSACCHARIDES (therapeutic use).

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BLOOD SUGAR (metabolism); CARBOHYDRATES (diagnostic use, metabolism); DIETARY FIBER; HUMAN; INSULIN (blood); MALE; PECTINS (pharmacodynamics).

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[SCHEMATIZATION MEANS DANGER OF MECHANIZATION AND INHUMANITY] Jervell J *Nord Med* 92: 207-8, Sep 77 (Nor) DL/78JAN464

ADMINISTRATION, ORAL; AUTOMOBILE DRIVING; BLOOD SUGAR; DIABETES MELLITUS (therapy); HUMAN; HYPOGLYCEMIC AGENTS.

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CALCIUM DEPENDENCY OF HORMONE STIMULATED LIPOLYSIS IN THE PERFUSED RAT HEART. Hron WT, Jesmok GJ, Lombardo YB, Menahan LA, Lech JJ *J Mol Cell Cardiol* 9: 733-48, Sep 77 (Eng) DL/78JAN382

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inhibitors, pharmacodynamics); INSULIN
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ANIMAL; CARBOHYDRATES (metabolism); DIABETES MELLITUS (complications, metabolism); DIABETIC ANGIOPATHIES (complications); GINGIVA (blood supply, metabolism); GINGIVITIS (pathology); GUINEA PIGS; HUMAN; MUCOPOLYSACCHARIDES (metabolism); PERIODONTAL DISEASES (etiology, pathology).

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LIVER CIRCULATION AND METABOLISM IN HAEMORRHAGIC SHOCK. AN EXPERIMENTAL STUDY WITH SPECIAL REFERENCE TO THE EFFECT OF GLUCAGON. Lindberg B *Acta Chir Scand [Suppl]* 1-18, 1977 (Eng) DL/78JAN573

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CHRONIC DISEASE; ENGLISH ABSTRACT; ENVIRONMENTAL EXPOSURE; GLUCOSE TOLERANCE TEST; HUMAN; LIPIDS (blood); LIPOPROTEINS, LDL (blood); SERUM ALBUMIN (analysis); TIME FACTORS.

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ESTRIOL (diagnostic use, urine); FEMALE; FETAL DISTRESS (diagnosis); GONADOTROPINS, CHORIONIC (diagnostic use); HORMONES (diagnostic use); HUMAN; PLACENTAL LACTOGEN (diagnostic use); PREGNANCY IN DIABETES (diagnosis); PREGNANCY COMPLICATIONS (diagnosis); PREGNANCY TRIMESTER, SECOND; PREGNANCY; PREGNANEDIOL (diagnostic use, urine); REVIEW; VAGINAL SMEARS.

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ACETYLCHOLINE (pharmacodynamics); ANIMAL; ATROPINE (pharmacodynamics); CALCIUM (pharmacodynamics); CARBACHOL (pharmacodynamics); DRUG INTERACTIONS; EPINEPHRINE (pharmacodynamics); GLUCOSE (pharmacodynamics); IN VITRO; NOREPINEPHRINE (pharmacodynamics); OUABAIN (pharmacodynamics); PHENTOLAMINE (pharmacodynamics); PHENYLEPHRINE (pharmacodynamics); POTASSIUM (metabolism); PURINES (pharmacodynamics); RATS; RESERPINE (pharmacodynamics); SUBMANDIBULAR GLAND (drug effects, metabolism); TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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ADOLESCENCE; BLOOD VOLUME; CASE REPORT; CHLORPROPAMIDE (therapeutic use); DIABETES INSIPIDUS (complications); ENGLISH ABSTRACT; FEMALE; HUMAN; HYDROCHLOROTHIAZIDE (therapeutic use); HYPERNATREMIA (drug therapy, etiology); THIRST; VASOPRESSIN (metabolism).

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CONCENTRATION (physiology); KINETICS;
LACTATE DEHYDROGENASE (metabolism);
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AMINOTRANSFERASE (blood); BLOOD
SUGAR; CATTLE; LACTATE
DEHYDROGENASE (blood); LIVER
CIRCULATION; LIVER (metabolism); LIVER
(enzymology); PERFUSION; POTASSIUM
(blood); SODIUM (blood); TEMPERATURE.

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CHICKENS; FEMALE; GLUCAGON
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(pharmacodynamics); IN VITRO; INSULIN
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TOLBUTAMIDE (analogs & derivatives,
pharmacodynamics); U.S. GOVT SUPPORTED,
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SUGAR (analysis); DIABETIC COMA (drug
therapy); FEMALE; HUMAN; INSULIN
(administration & dosage, therapeutic use);
KETOSIS, DIABETIC (drug therapy); MALE;
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AGED; DIABETES MELLITUS (complications,
pathology); ENGLISH ABSTRACT; FEMALE;
FOOT DISEASES (etiology, pathology); HUMAN;
JOINT DISEASES (etiology, pathology); MALE;
MIDDLE AGE.

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ADULT; ANIMAL; DIABETES MELLITUS
(surgery); DIABETES MELLITUS,
EXPERIMENTAL (surgery); DIABETIC
NEPHROPATHIES (surgery); EVALUATION
STUDIES; FEMALE; HISTOCOMPATIBILITY
TESTING; HUMAN; INSULIN (secretion);
ISLANDS OF LANGERHANS (secretion,
transplantation); KIDNEY (transplantation);
MALE; MIDDLE AGE; RATS;
TRANSPLANTATION, HOMOLOGOUS
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ANIMAL; GLUCOSE (analogs & derivatives, pharmacodynamics); LEYDIG CELLS (metabolism); MALE; PROTEINS (biosynthesis); RATS; SERTOLI CELLS (metabolism); SPERMATIDS (metabolism); SPERMATOCYTES (metabolism); TESTIS (cytology, metabolism); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

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ADULT; BLOOD SUGAR (analysis); FATTY ACIDS, NONESTERIFIED (blood); FEMALE; GLUCOSE (pharmacodynamics); HEADACHE (blood); HUMAN; INSULIN (blood); MALE; MIDDLE AGE; TOLBUTAMIDE (diagnostic use).

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CHILD; DIABETES MELLITUS, JUVENILE (familial & genetic); GENES, RECESSIVE; HUMAN; HL-A ANTIGENS (analysis).

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ACEBUTOLOL (pharmacodynamics); ADULT; COMPARATIVE STUDY; FATTY ACIDS, NONESTERIFIED (blood); HUMAN; INSULIN (pharmacodynamics); LIPIDS (metabolism); MALE; METOPROLOL (pharmacodynamics); PROPRANOLOL (pharmacodynamics); PROPRANOLOL (pharmacodynamics).

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ADULT; CASE REPORT; HUMAN; HYPOGLYCEMIA (diagnosis, physiopathology); MALE.

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[PERSPECTIVES OF CLINICAL BIOCHEMISTRY IN HEPATOLOGY] Niederland TR *Z Gesamte Inn Med* 32: 26-9, 15 Jan 77 (Ger) *DL/78JAN169

AMMONIA (metabolism); BLOOD SUGAR; CHROMATOGRAPHY, GEL; ENGLISH ABSTRACT; HUMAN; LACTATES (metabolism); LIVER DISEASES (diagnosis, enzymology, metabolism); LIVER FUNCTION TESTS; OXIDOREDUCTASES, O-DEMETHYLATING (metabolism).

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ADOLESCENCE; AGE FACTORS; CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS, JUVENILE (occurrence); HUMAN; INFANT; MICHIGAN; NEW YORK; TIME FACTORS.

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ACID PHOSPHATASE; ANIMAL; DUODENUM (cytology); ENDOPLASMIC RETICULUM (ultrastructure); EPITHELIUM (cytology); FATTY LIVER (pathology); GANGLIA, SPINAL (cytology); GOLGI APPARATUS (ultrastructure); GUINEA PIGS; HAMSTERS; ISLANDS OF LANGERHANS (cytology); ISLET CELL TUMOR (pathology); LIVER (cytology); MICROBODIES (ultrastructure); NEURONS (cytology); ORGANOIDS (ultrastructure); PANCREAS (cytology); RABBITS; RATS; THIAMINE PYROPHOSPHATASE; THYROID GLAND (cytology); U.S. GOVT SUPPORTED, N.I.H.).

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BINDING STUDIES; CALORIMETRY; KINETICS; LIGANDS; MANGANESE (pharmacodynamics); MATHEMATICS; PHOSPHOENOLPYRUVATE; PROTEIN BINDING; PYRUVATE KINASE (metabolism); PYRUVATES; RABBITS; THERMODYNAMICS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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[EFFECT OF GLUCAGON ON PLASMA LEVELS OF 3,5-ADENOSINE MONOPHOSPHATE IN PATIENTS WITH LIVER CIRRHOSIS (AUTHORS TRANSL)] Malinova V, Rysanek K, Bilkova B, Martinek K, Ochmanova D *Cas Lek Cesk* 116: 850-3, 8 Jul 77 (Cze) DL/78JAN246

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ADAPTATION, PHYSIOLOGICAL; ANIMAL; AORTA (anatomy & histology, drug effects, metabolism); DIET; FEEDING BEHAVIOR; FEEDING PATTERNS; GLUCOSE (metabolism); INSULIN (pharmacodynamics); LIPIDS (biosynthesis); MALE; PHOSPHOLIPIDS (biosynthesis); RATS; RECEPTORS, INSULIN; TRIGLYCERIDES (biosynthesis); U.S. GOVT SUPPORTED, N.I.H.).

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(etiology); PEPTIC ULCER (diagnosis); PREDNISOLONE (therapeutic use); STRESS.

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ADOLESCENCE; AGE FACTORS; CHILD; CHILD, PRESCHOOL; CONSUMER

PARTICIPATION; DIABETES MELLITUS, JUVENILE (complications); GINGIVAL HYPERPLASIA (etiology); HUMAN; LEUKEMIA (complications).

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ANIMAL; BLOOD SUGAR (physiology); FEMALE; GLUCOSE (therapeutic use); HEAT; MALE; MICE; MICE, INBRED DBA; NEOPLASM TRANSPLANTATION; SARCOMA 37 (drug therapy, therapy); SEX FACTORS; TRANSPLANTATION, HOMOLOGOUS.

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ENGLISH ABSTRACT; FEMALE; FETAL MONITORING; HUMAN; MATHEMATICS; PREGNANCY IN DIABETES (diagnosis); PREGNANCY TOXEMIAS (diagnosis); PREGNANCY TRIMESTER, THIRD; PREGNANCY; PREGNANCY, PROLONGED; PREGNANEDIOL (analysis); PROGESTERONE (analysis); VAGINAL SMEARS.

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ADIPOSE TISSUE (metabolism); ANIMAL; EPIDIDYMIS; FASTING; FATTY ACIDS (biosynthesis); FEEDING BEHAVIOR (physiology); FEEDING PATTERNS (physiology); GLUCOSE (metabolism); MALE; RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

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ADULT; AGED; BRAIN (enzymology); DEMYELINATION (enzymology, metabolism); DIABETIC NEUROPATHIES (enzymology, metabolism); ENCEPHALITIC BASIC PROTEINS (analysis); FEMALE; GLUCURONIDASE (metabolism); HUMAN; MALE; MIDDLE AGE; MYELIN PROTEINS (analysis); NERVOUS SYSTEM (analysis); PEPTIDE HYDROLASES (metabolism); PERIPHERAL NERVES (enzymology); 2,3-CYCLIC NUCLEOTIDE PHOSPHODIESTERASE (metabolism).

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ADULT; AGED; ARGININE (diagnostic use); BLOOD SUGAR (metabolism); DIABETES MELLITUS (blood, complications); FATTY ACIDS, NONESTERIFIED (blood); GLUCAGON (blood); HEMOCHROMATOSIS (blood, complications); HUMAN; KINETICS; MALE; MIDDLE AGE.

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ADOLESCENCE; ADULT; DIABETES MELLITUS (complications, urine); DIABETIC NEUROPATHIES (complications, urine); FEMALE; HUMAN; INDICAN (urine); MALE; MIDDLE AGE; SPRUE (complications).

Paton JB

FASTING PLASMA LEVELS OF GLUCOSE, ACETOACETATE, D-BETA-HYDROXYBU-TYRATE, GLYCEROL, AND LACTATE IN THE BABOON INFANT: CORRELATION WITH CEREBRAL UPTAKE OF SUB-STRATES AND OXYGEN. Levitsky LL, Fisher

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A MODEL FOR TREATING POST-IRRADIATION NAUSEA AND VOMITING IN MAN: THE ACTION OF INSULIN IN ABOLISHING RADIATION-INDUCED DELAY IN GASTRIC EMPTYING IN THE RAT. Hulise EV, Patrick G, Phil D *Br J Radiol* 50: 645-51, Sep 77 (Eng) DL/78JAN222

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OUR EXPERIENCES WITH TOLBUTAPHENONE IN THE TREATMENT OF DIABETES MELLITUS] Grujic M, Perinovic M, Rizvanbegovic B *Med Arh* 31: 97-100, Mar-Apr 77 (Ser) DL/78JAN404

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ANGINA PECTORIS (complications); CEREBROVASCULAR DISORDERS (complications); DENTAL OFFICES; DIABETES MELLITUS (complications); EMERGENCIES; EPILEPSY (complications); HUMAN; HYPOTENSION, ORTHOSTATIC (complications); HYSTERIA (complications); MYOCARDIAL INFARCT (complications); SHOCK (diagnosis, etiology, therapy); SHOCK, CARDIOGENIC (drug therapy, etiology); SYNCOPE (complications, physiopathology).

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[ULTRASTRUCTURAL CHANGES IN THE ORGANIZATION OF PLASMA MEMBRANES IN ADIPOCYTES OF OBESE MICE (OB/OB)] Carpentier JL, Perrelet A, Orci L *C R Acad Sci [D] (Paris)* 283: 1417-9, 15 Nov 76 (Fre) *DL/78JAN27

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THE FATTY ACID COMPOSITION OF ADIPOSE TISSUE TRIGLYCERIDE IN THE NEWBORN IN RELATION TO MATERNAL ADIPOSE TISSUE, MATERNAL LIPIDS AND CORD BLOOD LIPIDS. PP. 43-6. Tamir I, Helander B, Levstov O, Samuel D, Persitz A In: *Laron Z, Dickerson Z, ed. The adipose child. Basel, Karger, 1976 W1 PE163H v.1* 1975. (Eng) *DL/78JAN91

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ESCHERICHIA COLI (enzymology, metabolism); GALACTOSE (metabolism); GENES; GLUCOSE (metabolism); HEXOSES (metabolism); MUTATION; PHOSPHOENOLPYRUVATE (metabolism); PHOSPHOTRANSFERASES (metabolism); PYRUVATE KINASE (metabolism); PYRUVATES (biosynthesis).

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BLOOD SUGAR (analysis); DIAGNOSTIC ERRORS; ENGLISH ABSTRACT; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; LACTATION (drug effects); NORPREGNATRIENES (pharmacodynamics);

PREGNANCY; PUERPERIUM; QUINESTROL (pharmacodynamics); 2-BROMOERGOCRYPTINE (pharmacodynamics).

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AMINO ACID SEQUENCE; BLOOD SUGAR (metabolism); CARBOHYDRATES (metabolism); CHROMATOGRAPHY (methods); DIABETES MELLITUS (blood, diagnosis); DIABETES MELLITUS, JUVENILE (metabolism); GLUCOSE TOLERANCE TEST; HEMOGLOBIN A (biosynthesis); HEMOGLOBINS (biosynthesis); HUMAN; HYPERGLYCEMIA (etiology).

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ANIMAL; COMPARATIVE STUDY; CRICETULUS; DIABETES MELLITUS, EXPERIMENTAL (familial & genetic, metabolism); GLUCAGON (metabolism); HAMSTERS; HISTOCYTOCHEMISTRY; HYPOTHALAMUS (metabolism); INSULIN (metabolism); PANCREAS (metabolism); SOMATOTROPIN RELEASE INHIBITING HORMONE (metabolism); STOMACH (metabolism); U.S. GOVT SUPPORTED, N.I.H.).

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ADENOSINE TRIPHOSPHATE (blood); BILIRUBIN (pharmacodynamics); BLOOD SUGAR (metabolism); DIPHOSPHOGLYCERIC ACIDS (blood); ERYTHROCYTES (drug effects, metabolism); HEMOLYSIS (drug effects); HUMAN; HYPERBILIRUBINEMIA (blood).

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ACIDS, NONESTERIFIED (blood); FEMALE; FRUCTOSE (pharmacodynamics); GLUCOSE (pharmacodynamics); HUMAN; HYDROXYBUTYRATES (blood); KETONES (blood); LACTATES (blood); MALE; MIDDLE AGE; PYRUVATES (blood); SORBITOL (blood); SUCROSE (pharmacodynamics); TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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Robinson DS

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DIABETES MELLITUS (diagnosis); ENGLISH ABSTRACT; FEMALE; HUMAN; MALE; METHODS; MIDDLE AGE; PERIODONTITIS (diagnosis); TIME FACTORS.

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ACETOACETATES (blood); ADULT; BLOOD SUGAR (metabolism); DIABETES MELLITUS (blood); FATTY ACIDS, NONESTERIFIED (blood); FEMALE; GLUCAGON (blood); HUMAN; HYDROCORTISONE (blood); HYDROXYBUTYRATES (blood); INSULIN (blood); KETONE BODIES (blood); MALE; MIDDLE AGE; NOREPINEPHRINE (diagnostic use); SOMATOTROPIN (blood); U.S. GOVT SUPPORTED, N.I.H.).

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ANIMAL; BLOOD SUGAR (analysis); CHOLESTEROL (blood); DEPRESSION, CHEMICAL; DIABETES MELLITUS, EXPERIMENTAL (blood); FEMALE; MALE; PLANT PROTEINS (pharmacodynamics); RATS; SEEDS.

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[PROXIMAL GASTRIC VAGOTOMY AT A REGIONAL HOSPITAL. STATISTICS OF A 1-2 1/2 YEAR FOLLOW-UP] Ruud TE, Thorsen G, Rosseland A, Nilsen BH, Sentralsjukehus T, Skien K *Tidsskr Nor Lægeforen* 97: 1253-5, 10 Sep 77 (Nor) DL/78JAN525

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IMMUNOCYTOCHEMICAL LOCALIZATION OF A GASTRIC INHIBITORY POLYPEPTIDE-LIKE MATERIAL WITHIN A-CELLS OF THE ENDOCRINE PANCREAS. Smith PH, Merchant FW, Johnson DG, Fujimoto WY, Williams RH *Am J Anat* 149: 585-90, Aug 77 (Eng) DL/78JAN590

ANIMAL; ANIMALS, NEWBORN; CROSS REACTIONS; GASTRIC INHIBITORY POLYPEPTIDE (metabolism);

GASTROINTESTINAL HORMONES (metabolism); GLUCAGON (metabolism); HISTOCYTOCHEMISTRY; IMMUNOENZYME TECHNIQS; ISLANDS OF LANGERHANS (cytology, metabolism); RATS; U.S. GOVT SUPPORTED, N.I.H. ; U.S. GOVT SUPPORTED, NON-N.I.H.).

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ANIMAL; BINDING SITES; DIABETES MELLITUS, EXPERIMENTAL (complications, metabolism); FEMALE; INSULIN (metabolism); LIVER (metabolism); MAMMARY NEOPLASMS, EXPERIMENTAL (chemically induced, complications, metabolism); NUCLEOTIDASES (metabolism); PROLACTIN (metabolism); RATS; U.S. GOVT SUPPORTED, N.I.H. ; 9,10-DIMETHYL-1,2-BENZANTHRACENE (diagnosis).

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GLUCOSEPHOSPHATES (metabolism); KINETICS; MODELS, BIOLOGICAL; MONKEYS; MONOGRAPH (mortality); RATS; SCIATIC NERVE (physiology); SPINAL CORD (physiology); VISUAL PATHWAYS (physiology).

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ADENINE (metabolism); ADENOSINE CYCLIC-3,5-MONOPHOSPHATE (metabolism); ADIPOSE TISSUE (metabolism); ANIMAL; GLUCAGON (analogs & derivatives, metabolism); GLYCERIN (metabolism); KINETICS; MALE; RATS; RECEPTORS, HORMONE (metabolism); THEOPHYLLINE (pharmacodynamics).

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DIABETIC ANGIOPATHIES (occurrence); FEMALE; HUMAN; HYPERTENSION (complications, occurrence); MALE; OBESITY IN DIABETES (complications, occurrence); YUGOSLAVIA.

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ADOLESCENCE; ADULT; BLOOD SUGAR (metabolism); CONTRACEPTIVES, ORAL, COMBINED (adverse effects); ETHYNODIOL DIACETATE (adverse effects); FEMALE; FLORIDA; GLUCOSE TOLERANCE TEST; HUMAN; MESTRANOL (adverse effects); MIDDLE AGE; PROSPECTIVE STUDIES; U.S. GOVT SUPPORTED, NON-N.I.H.).

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ANIMAL; DIABETES MELLITUS, EXPERIMENTAL (surgery); FETUS; INGUINAL CANAL (surgery); KIDNEY (surgery); MUSCLES (surgery); PANCREAS (embryology, transplantation); RATS; RATS, INBRED STRAINS; SPLEEN (surgery); STREPTOZOTOCIN; TESTIS (surgery); TRANSPLANTATION, ISOGENEIC (transplantation); U.S. GOVT SUPPORTED, N.I.H.).

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ANIMAL; ANIMALS, NEWBORN (blood); BLOOD SUGAR (metabolism); GLUCAGON (blood, pharmacodynamics); HOMEOSTASIS (drug effects); INSULIN (blood, pharmacodynamics); SHEEP; SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); U.S. GOVT SUPPORTED, N.I.H.).

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DIABETES MELLITUS (etiology, metabolism, physiopathology); EPINEPHRINE (secretion); GLUCAGON (secretion); HORMONES (secretion); HUMAN; HYDROCORTISONE (secretion); INSULIN (secretion); NOREPINEPHRINE (secretion); SOMATOTROPIN (secretion); U.S. GOVT SUPPORTED, N.I.H.).

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ANIMAL; AORTA, THORACIC (metabolism); CELLS, CULTURED; CHOLESTEROL ESTERS (metabolism); CHOLESTEROL (metabolism); CHOLESTEROL (blood); CULTURE MEDIA; ESTERIFICATION; LIPIDS (blood); LIPOPROTEINS, HDL (pharmacodynamics); LIPOPROTEINS, LDL (pharmacodynamics); MONKEYS; MUSCLE, SMOOTH (metabolism); OLEIC ACIDS (metabolism); PHOSPHOLIPIDS (metabolism); RHESUS MONKEYS; TRIGLYCERIDES (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. .

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GENETICS OF JUVENILE DIABETES MELLITUS. A RECESSIVE GENE CLOSELY LINKED TO HLA D AND WITH 50 PER CENT PENETRANCE. Rubinstein P, Suciu-Foca N, Nicholson JF *N Engl J Med* 297: 1036-40, 10 Nov 77 (Eng) DL/78JAN440

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ANIMAL; GLUCOSE (pharmacodynamics); GLYCERALDEHYDE (pharmacodynamics); IN VITRO; INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, metabolism); KINETICS; MALE; MANNOHEPTULOSE (pharmacodynamics); PHOSPHOENOLPYRUVATE (metabolism); PYRUVATE KINASE (metabolism); RATS.

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FEMALE; HUMAN; PREGNANCY IN DIABETES (nursing, therapy); PREGNANCY.

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- ABSORPTION; ANIMAL; CARCINOMA 256, WALKER (metabolism); DOSE-RESPONSE RELATIONSHIP, DRUG; DRUG TOLERANCE; GLUCOSE (metabolism); IN VITRO; INSULIN (pharmacodynamics); MALE; MUSCLES (drug effects, metabolism); RATS.
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ADULT; ALCOHOL, ETHYL (administration & dosage, blood, pharmacodynamics); HUMAN; INSULIN (blood); TIME FACTORS; TRIGLYCERIDES (blood).

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ANIMAL; BINDING SITES; CELL MEMBRANE (metabolism); COBALT (pharmacodynamics); ERYTHROPOIESIS (drug effects); GLUCAGON (pharmacodynamics); GLUCOSE (metabolism); KIDNEY DISEASES (blood); LIPIDS (blood); LIVER (metabolism); MALE; MONOGRAPH (mortality); RATS; TRIGLYCERIDES (blood).

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DIABETIC MACULOPATHY. Taylor W *Trans Ophthalmol Soc NZ* 29: 27-9, 1977 (Eng) DL/78JAN543

ADULT; AGED; DIABETIC RETINOPATHY (surgery); FEMALE; HUMAN; LASER COAGULATION; MACULA LUTEA (surgery); MALE; MIDDLE AGE; VISUAL ACUTY.

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ADIPOSE TISSUE (drug effects, metabolism); ANIMAL; GLIBENCLAMIDE (pharmacodynamics); GLUCOSE (metabolism); IN VITRO; MALE; RATS.

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CESAREAN SECTION; FEMALE; FETUS; HOSPITALIZATION; HUMAN; INFANT MORTALITY; PREGNANCY IN DIABETES (therapy); PREGNANCY.

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ADULT; DIABETES MELLITUS (physiopathology, therapy); DIABETIC ANGIOPATHIES (physiopathology); HUMAN.

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ACIDOSIS (etiology); ADULT; APNEA (etiology, therapy); COMA (etiology); HUMAN; HYPERGLYCEMIA (etiology); INSULIN (therapeutic use); KETOSIS (drug therapy, etiology); MALE; RESPIRATORY CENTER; WERNICKE ENCEPHALOPATHY (complications).

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EFFECTS OF A GAMMA AMINOBUTYRIC ACID (GABA) DERIVATIVE, BACLOFEN, ON GROWTH HORMONE AND PROLACTIN SECRETION IN MAN. Cavagnini F, Invitti C, Di Landro A, Tenconi L, Maraschini C, Girotti G *J Clin Endocrinol Metab* 45: 79-84, Sep 77 (Eng) DL/78JAN339

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ACTION POTENTIALS (drug effects); ADENOSINE TRIPHOSPHATASE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); AMINO ACIDS (metabolism); ANIMAL; CELL MEMBRANE (drug effects); COCHLEA (drug effects, metabolism); CYANATES (toxicity); DIURETICS (toxicity); DOSE-RESPONSE RELATIONSHIP, DRUG; ENERGY METABOLISM (drug effects); GLYCOGEN (metabolism); GLYCOLYSIS (drug effects); GUINEA PIGS; IODOACETATES (pharmacodynamics); LABYRINTHINE FLUIDS (physiology); OUABAIN (toxicity); OXIDATION-REDUCTION; OXIDATIVE PHOSPHORYLATION (drug effects); POTASSIUM (metabolism); SALICYLATES (toxicity); SODIUM (metabolism); SOUND (adverse effects); TETRAETHYLAMMONIUM COMPOUNDS (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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THERAPEUTIC DIETS FOR ASIANS. Thampy R *J Hum Nutr* 31: 256-8, Aug 77 (Eng) DL/78JAN356

ASIA (ethnology); DIABETIC DIET; DIET THERAPY; DIET, REDUCING; DIET, SALT-FREE; DIETARY FATS; FEMALE; FOOD PREFERENCES; GREAT BRITAIN; HEALTH EDUCATION; HUMAN; MALE; MENU PLANNING; NUTRITION DISORDERS (diet therapy); NUTRITION; PREGNANCY.

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ANIMAL; CELL MEMBRANE (drug effects); FATTY ACIDS, ESSENTIAL (pharmacodynamics); MITOCHONDRIA, LIVER (drug effects); RATS.

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ANAEROBIOSIS; BIOLOGICAL TRANSPORT; BIOLOGICAL TRANSPORT, ACTIVE; CARBONYL CYANIDE P-TRIFLUOROMETHOXY-

PHENYLHYDRAZONE (pharmacodynamics); DEOX

THOMPSON WJ
SUGARS (metabolism); FUCOSE (metabolism); GALACTOSE (metabolism); GENOTYPE; HYDROGEN-ION CONCENTRATION (physiology); KINETICS; METHYLGALACTOSIDES (metabolism); MONOSACCHARIDES (metabolism); SALMONELLA TYPHIMURIUM (drug effects, metabolism); SPECIES SPECIFICITY; THIOCYANATES (pharmacodynamics).

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BIOLOGICAL TRANSPORT; CELL MEMBRANE (metabolism, ultrastructure); ESCHERICHIA COLI (metabolism); FATTY ACIDS, UNSATURATED (physiology); GALACTOSIDES (metabolism); GLUCOSIDES (metabolism); KINETICS; MATHEMATICS; MEMBRANE LIPIDS (physiology); TEMPERATURE.

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CLINICAL EVALUATION AND PRELIMINARY STUDIES ON THE USE OF AN ARTIFICIAL PANCREATIC BETA CELL IN JUVENILE DIABETES MELLITUS. Clarke WL, Thomas L, Santiago JV *J Pediatr* 91: 590-6, Oct 77 (Eng) DL/78JAN369

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ADOLESCENCE; ADULT; ESTRADIOL (blood, urine); FEMALE; FETAL DEATH; HUMAN; PRE-ECLAMPSIA (blood); PREGNANCY IN DIABETES (blood); PREGNANCY COMPLICATIONS (blood); PREGNANCY; RADIOIMMUNOASSAY; SULFATASES (deficiency).

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DIFFERENCES IN CATALYTIC PROPERTIES BETWEEN CEREBRAL CYTOPLASMIC AND MITOCHONDRIAL HEXOKINASES. Thompson MF, Bachelard HS *Biochem J* 161: 593-8, 1 Mar 77 (Eng) *DL/78JAN203

ACETYLGLUCOSAMINE (pharmacodynamics); ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL; CATTLE; CEREBRAL CORTEX (enzymology); CYTOPLASM (enzymology); GLUCOSE (metabolism); HEXOKINASE (antagonists & inhibitors, metabolism); IN VITRO; KINETICS; MITOCHONDRIA (enzymology).

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Thorburn GD

THE EFFECTS OF HYPOXAEMIA IN FETAL SHEEP. Robinson JS, Jones CT, Thorburn GD *J Clin Pathol [Suppl]* 127-33, Feb 77 (Eng) [47 ref.] DL/78JAN345

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[PROXIMAL GASTRIC VAGOTOMY AT A REGIONAL HOSPITAL. STATISTICS OF A 1-2 1/2 YEAR FOLLOW-UP] Ruud TE, Thorsen G, Roselland A, Nilsen BH, Sentralsjukhus T, Skien K *Tidsskr Nor Lægeforen* 97: 1253-5, 10 Sep 77 (Nor) DL/78JAN525

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ADULT; BINDING SITES; COMPARATIVE STUDY; FETAL BLOOD; INFANT, NEWBORN; INSULIN (blood, metabolism, physiology); KINETICS; MONOCYTES (metabolism); RECEPTORS, INSULIN (metabolism); U.S. GOVT SUPPORTED, N.I.H.).

Thun KJ

[TREATMENT OF OBESITY] Thun KJ *Hypokrates* 48: 84-5, Feb 77 (Ger) *DL/78JAN66
CALORIC INTAKE; DIET, REDUCING; HUMAN; INTESTINE, SMALL (surgery); OBESITY (diet therapy, therapy).

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INSULIN AND GLUCAGON SECRETION IN DIABETIC AND NON-DIABETIC PATIENTS WITH CIRCULATING ISLET CELL ANTIBODIES. Tiengo A, Del Prete GF, Nosadini R, Betterle C, Garotti C, Bersani G *Diabetologia* 13: 451-8, Sep 77 (Eng) DL/78JAN294
ADULT; AGED; ARGININE (diagnostic use); AUTOANTIBODIES (analysis); AUTOIMMUNE DISEASES (complications); BLOOD SUGAR (metabolism); DIABETES MELLITUS (blood, complications, immunology); FEMALE; GLUCAGON (blood); GLUCOSE (diagnostic use); HUMAN; INSULIN (blood); ISLANDS OF LANGERHANS (immunology); MALE; MIDDLE AGE.

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[HYPOGLYCEMIC SULFONYLUREA METABOLITES: CLINICAL INTEREST. EXPERIENCES WITH GLIBENCLAMIDE IN THE RAT] Samimi H, Loutan L, Balant L, Tilloles M, Fabre J *Schweiz Med Wochenschr* 107: 1291-6, 17 Sep 77 (Fre) DL/78JAN511

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THE ROLE OF DOPAMINERGIC DEPLETION IN THE PATHOGENESIS OF CUSHINGS DISEASE AND THE POSSIBLE CONSEQUENCES FOR MEDICAL THERAPY. Lamberts SW, Timmermans HA, De Jong FH, Birkenhager JC *Clin Endocrinol (Oxf)* 7: 185-93, Sep 77 (Eng) DL/78JAN251

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ACETYLCHOLINE (metabolism); ADRENERGIC ALPHA RECEPTOR

BLOCKADERS (pharmacodynamics); ADRENERGIC BETA RECEPTOR
BLOCKADERS (pharmacodynamics); ADRENERGIC FIBERS (anatomy & histology); ANIMAL; AUTONOMIC FIBERS, POSTGANGLIONIC (anatomy & histology); AUTONOMIC FIBERS, PREGANGLIONIC (anatomy & histology, metabolism); CELIAC PLEXUS (anatomy & histology); CHOLECYSTOKININ (pharmacodynamics); CHOLINERGIC FIBERS (physiology); DOGS; GANGLIA (anatomy & histology); HUMAN; ISLANDS OF LANGERHANS (innervation); NERVE ENDINGS (ultrastructure); PANCREAS (innervation, secretion); PARASYMPATHETIC NERVOUS SYSTEM (anatomy & histology); REVIEW; SPLANCHNIC NERVES (anatomy & histology); VAGUS NERVE (anatomy & histology).

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ADRENAL CORTEX HORMONES (pharmacodynamics); ALDOSTERONE (pharmacodynamics); ANIMAL; ANIMALS, NEWBORN; CELL DIFFERENTIATION (drug effects); CORTICOSTERONE (pharmacodynamics); ESTRADIOL (pharmacodynamics); FEMALE; HYDROCORTISONE (pharmacodynamics); INSULIN (pharmacodynamics); MAMMAE (drug effects); MICE; ORGAN CULTURE; PREGNANCY; PROGESTERONE (pharmacodynamics); PROLACTIN (pharmacodynamics); SOMATOTROPIN (pharmacodynamics); THYROXINE (pharmacodynamics); U.S. GOVT SUPPORTED, N.I.H.).

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ACIDOSIS, DIABETIC (drug therapy); BLOOD SUGAR (metabolism); CASE REPORT; CHILD; DRUG ADMINISTRATION SCHEDULE; FEMALE; HUMAN; INFUSIONS, PARENTERAL; INSULIN (administration & dosage, therapeutic use); KETOSIS, DIABETIC (drug therapy); MALE.

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AMYLOIDOSIS (immunology); BASEMENT MEMBRANE, BIOPSY; DIABETIC NEPHROPATHIES (immunology); ENGLISH ABSTRACT; GRAFT REJECTION; HUMAN; IMMUNOGLOBULINS (analysis); KIDNEY DISEASES (immunology); KIDNEY FAILURE, ACUTE (immunology); KIDNEY GLOMERULUS; KIDNEY (pathology); NEPHRITIS, INTERSTITIAL (immunology); NEPHROSCLEROSIS (immunology); NEPHROTIC SYNDROME (immunology).

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ANIMAL; DIABETES MELLITUS, EXPERIMENTAL (prevention & control); DRUG INTERACTIONS; DRUG THERAPY, COMBINATION; LEUKEMIA L1210 (drug therapy, metabolism); LIVER (metabolism); MALE; METHYLGLUCOSIDES (pharmacodynamics); METHYLGLYCOSIDES (pharmacodynamics); MICE; MICE, INBRED C57BL; MICE, INBRED DBA; NICOTINAMIDE (pharmacodynamics); NAD (metabolism); STREPTOZOTOCIN (adverse effects); U.S. GOVT SUPPORTED, N.I.H.).

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ADIPOSE TISSUE (drug effects, metabolism); ANIMAL; BODY WEIGHT; DIETARY

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ANIMAL; BLOOD PRESSURE; BLOOD SUGAR (metabolism); BODY TEMPERATURE; BURNS (blood); CARDIAC OUTPUT; GUINEA PIGS; HYDROGEN-ION CONCENTRATION (physiology); KINETICS; LACTATES (blood); OXYGEN CONSUMPTION; SHOCK, TRAUMATIC (physiopathology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

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CANCER VIRUS (drug effects); MICE; MICE, INBRED BALB C; MICE, INBRED C3H; PLACENTAL LACTOGEN (pharmacodynamics); PREGNANCY; PROLACTIN (pharmacodynamics); SOMATOTROPIN (pharmacodynamics); THYROTROPIN (pharmacodynamics); U.S. GOVT SUPPORTED, N.I.H.); VIRUS REPLICATION (drug effects).

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(administration & dosage, therapeutic use); HUMAN; INFUSIONS, PARENTERAL; KALLIKREIN-TRYPSIN INACTIVATOR (administration & dosage, therapeutic use); MALE; MIDDLE AGE; PANCREATITIS (drug therapy, etiology, mortality); PLACEBO; SEX RATIO.

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